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APPLICABILITY OF CATALYTIC OXIDATION TO THE DEVELOPMENT OF NEW PROCESSES FOR REMOVING SO_2 FROM FLUE GASES

Volume III - INDEXED BIBLIOGRAPHY

Contract No. PH 22-68-12

Prepared by

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Division of Process Control Engineering
National Air Pollution Control Administration
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16. Abstracts

This report presents an indexed bibliography which provides access to all information accumulated during the literature search phase of this project. During the first phase, a search was made of all literature for pertinent information relating to the catalytic oxidation of sulfur dioxide.

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Sulfur dioxide
Flue gases
Electric power plants

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APPLICABILITY OF CATALYTIC OXIDATION TO THE DEVELOPMENT OF NEW PROCESSES FOR REMOVING SO_2 FROM FLUE GASES

Volume III - Indexed Bibliography

Contract No. PH 22-68-12

MRC Job No. 6708

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August 1970

Submitted to

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FOREWORD

The intent of this volume is to provide quick and convenient access to all information accumulated during the literature search phase of the project. The actual listing of information was accomplished with the utilization of a computer, therefore the page format is somewhat different than the previous two volumes. Each section has an index tab for quick access.

This final report is presented in three volumes in an effort to make the material accessible on the assumption that it is of practical value and therefore will be put to use.

Volume I is intended to contain all, and only, that material derived from, or related to, the literature search. Essentially all information in Volume I is directly based on the literature.

Volume II presents data and information generated in the laboratory and on the drawing board.

Volume III is an indexed bibliography.

Finally, guidance through the three volumes is offered in the form of the Foreword, Project General Summary and Tables of Contents in each of the three volumes.

The authors wish to acknowledge the many helpful comments and suggestions of the NAPCA Project Officer, Mr. George L. Huffman.

PROJECT GENERAL SUMMARY

The salient features of the project are summarized briefly below. Expansion and details are given in the texts of Volumes I and II.

The main objectives of the program were:

a. Search all available literature for pertinent information relative to the datalytic oxidation of sulfur dioxide, i.e., active materials, mechanisms of catalysis, methods of application, equipment employed, etc. Identify, describe and evaluate processes disclosed in the literature to have commercial potential for removal of sulfur dioxide from flue gas by oxidation.

b. Test, in the laboratory, candidate materials and methods suggested in the literature for potential application to removal of sulfur dioxide from flue gas by catalytic oxidation.

c. Identify at least one effective catalyst for the desired application and design a process for removal of sulfur dioxide from flue gas by catalytic oxidation and recovery of the sulfur value.

An intensive search of the literature revealed the following:

a. The transition metal oxides, notably vanadia, and platinum were the most commonly employed solid catalysts for practical conversion of sulfur dioxide to trioxide. Nitrogen dioxide was the only practical gaseous catalyst noted.

b. Kinetic equations describing conversions of sulfur dioxide over vanadia or platinum catalysts were derived from data relative to commercial production of sulfuric acid, i.e., high concentrations of sulfur dioxide. There was nothing available to describe results at the comparatively low concentrations of sulfur dioxide found in flue gas.

c. A number of processes were described as having commercial potential for flue gas cleaning. Comparative cost-performance evaluation of these oxidation processes eliminated all but two types as having realistic commercial potential, viz., one type based on vanadia catalyst and one based on nitrogen dioxide catalyst.

d. The most practical mode of recovery of oxidized sulfur value from a use standpoint, in this country, is production of fertilizer grade sulfuric acid.

Laboratory tests and comparative evaluation of commercial and experimental catalysts indicated the following:

a. Commercial vanadia catalysts employed in production of sulfuric acid are effective in converting sulfur dioxide at concentrations found in flue gas.

b. Although platinum catalyst performance is essentially equivalent to that of vanadia, a cost-performance comparison indicated vanadia is ten times more effective.

c. No other candidate materials were shown to be as effective as vanadia, platinum or nitrogen dioxide in converting sulfur dioxide to trioxide.

d. Nitrogen dioxide was the only practical "low temperature" catalyst observed.

e. Using nitrogen dioxide as a catalyst, it is potentially practical to remove both sulfur dioxide and indigenous nitrogen oxides from flue gas simultaneously.

From preliminary process designs and cost estimates, based on laboratory data generated in this program, the following emerge:

a. Processes, based on vanadia catalyst, for oxidizing sulfur dioxide and removing it from power plant flue gas, as sulfuric acid, are likely to cost in the range of $12 to $25 of capital per installed Kw of power plant capacity. A large portion of the cost results from the need for corrosion resistant equipment.

b. Operating costs for vanadia based processes are likely to be in the range of 0.50 to 0.74 mills/Kw-Hr generated before sulfur value net back.

c. A substantial reduction in capital and operating costs are potentially available through a technique of surbing the oxidized product gas from the main flue gas stream and recovering it separately.

d. The vanadia based processes are better suited to proposed new power plant installations than to existing plants because of numerous difficulties in retro-fit to existing power plants.

VOLUME III

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I. INTRODUCTION -- VOLUME III

Information accumulated during the literature search phase of the project has been organized and indexed on a key-word-in-context (KWIC) basis. The first section is an alphabetical listing of authors with a corresponding bibliography number. The second section consists of a Key Word index with a related listing of titles and corresponding bibliography numbers. The final section consists of a listing of the bibliography numbers. For each of these is given: author, title, journal reference, and Chemical Abstracts reference.

Thus, if one knows the author's name only, he would enter the first section to find the bibliography number, or numbers, identifying the author, and, with these numbers, enter the third section to determine the title of the author's article and the reference.

On the other hand, if one wishes information relative to, say platinum catalysts, he would look in Section 2 under PLATINUM, or similar key word, and scan the corresponding titles. If one, or a number, seemed directly pertinent, the bibliography number, or numbers, for the title would be used to enter Section 3 to identify the reference.

AUTHOR INDEX

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	ABE K 60DOM
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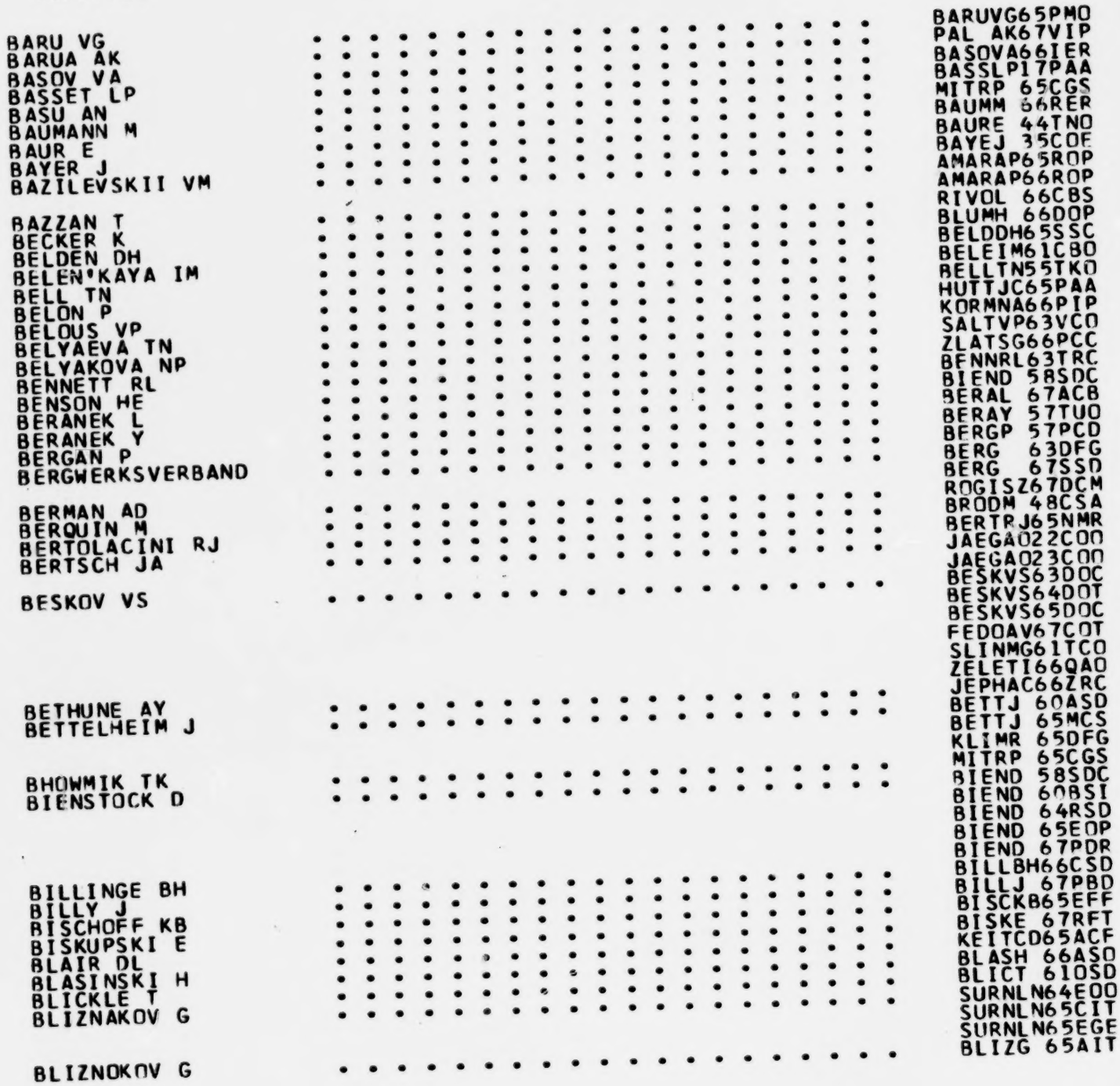

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FELDMAN D	DIACV 55POV
FEOKTISTOV GI	TETEVI67CWY
FERDINAND Z	HORVT 65RSD
FERENCZY Z	BLICT 61OSD
FERNANDEZ CI	YANEJF65PAS
FERRAIOLO G	FERRG 66IFI
	FERRG 67EIP
	FERRG 67EPG
FIALKO GM	FIALGM60DOT
FIELD JH	BIEND 60RSI
	BIEND 64RSD
	BIEND 65EOP

FIELDER RS	BIEND 67PDR
FIGUROVSKAYA NP	JACKPJ59VTC
FILATOV VU	KURINP56CEO
FILATOV YV	FILAVU66TOT
	KERNVS66OOS
FILIPPOV GG	MUKHIP65OOC
FILIPPOVA ZG	FILIGG66POS
	MUKHIP65RSS
FISCHER HC	MUKHIP65TEO
FISCHER S	MUKHIP67SWR
	FISCHC64PCB
FIVESPENHOET	FISCS 65ATD
FLANNERY RJ	FISCS 66TTS
FLINT D	FIVE 66ROS
FOMICHEVA TY	CONNJF67RSP
FORMANEK Z	FLIND 51C00
FOSTER RN	ADADIF36TUO
FOULON A	BALOJ 66CR
FRANKENBERG TT	FOSTRN66ACM
FRANTISAK F	FOULA 55CCO
FRANZ M	FRANTT65ROS
FRAZER JCN	BETTJ 65MCS
FRAZER JH	FRANM 64PSO
FREDRIKSON H	FRAZJC2OOC
FRENNET A	FRAZJH4OANM
FRIDSHTEIN IL	NESTIN67IWG
FRIEDRICH FD	COEKR 63CUI
FRIELING G	ZIMINA65ROC
FROMENT GF	LEE GK67EFC
FRUMKIN AN	POLLWA67SDF
FUERST H	FROMGF66HAM
FUJISHIRO S	FRUMAN4OCOH
GABRIELSON CO	GEYSK 65POW
GAFUROV AA	WAKAN 66SOS
GAJEWSKI A	GABRC047COT
GALFAND SF	GAFUAA65OCO
	JANIW 67MFR
GANZ SN	GALESF67RAR
	GALESF67SDR
	GANZSN65OUF
	GANZSN65SDR
	GANZSN66PNE
	KUZNIF66PIG
GARBATO C	GARBC 48OOS
GARTRELL FE	GARTFF66COA
GAUGUIN R	PAPED 66CS
GAVRILINA IY	VYAKDA67GCC
GEIBOVICH FV	GEIBEV56TPO
	GEIBEV56TRF
GEISLER E	GEISE 65SRS
GELENSOY H	GELFH 66MAH
GEMERDONK R	GEMER 65SSD
GENERAL AMERICAN TRANSPORTATION CORP.	GENE 67CFC
GERBURT FV	GERBEV63EOP
	GERBEV63EOS
GERHARD ER	GERBEV63SFC
GERNET DV	GERHER55POO
	ADADIE3OCAF

GEYS K	ADADIE35TPO
GIGNIER JP	ADADIE36ECD
GILBERT EE	GERNDV35TEO
GIOLA F	GFYSK 65POW
GISTLING AM	GIGNJ 67FBM
GLADUSKO VI	GILBEF64SLT
GLASER V	GIOLF 67EOP
GLEASON TG	GIOLF 67EPP
GLEIKHENGAUZ IM	GISTAM37TCO
GOFMAN MS	GLADVI63TVO
GOHLKE RS	GLASV 66COT
GOLDMANN H	KOPIR 68WSB
GOLDSCHMIDT T	GERBEV63SFC
GOLF F	RITTLG63EUR
GOLODETS GI	VOLGBP66ASD
GOLOVKO NA	GOHLRS66MSM
GOLYAND SM	BAERE 26CSD
GONSALES A	GOLDT 64SST
GONTI NI	GOLFF 62GCM
GONTMAKHER NM	GOLOGI63EOT
GORING RL	ROITVA60TKO
GOROKHOVATSKII YB	ROITVA65SOC
GOSSELIN AE	BRODKI34SSS
GRADUSOVA LI	GOLONA66ARO
GRASSELLI CHEMICAL CO.	KOLOLA34OOS
GRECO G	KURGVM65TLC
GREEN PD	KURGVM66CPM
GRIGOR'EVA AS	TAVALF67EHT
GRIGOR'EVA GA	TOVMIK66SCI
GRIGOROV AF	CARBJJ66TDP
GRILLO W	GOROYB66EOS
GRISHINA NM	DUNDRH67FGP
GRODZOVSKII MK	GRADLI62POC
GROMADOWSKI J	GRADLI63COO
GROSSMAN A	GRAS 36SG
GRUNDKE E	GRECG 56COO
GUPTA AD	SHAWJT66OOS
GUREVICH DA	GERBEV63EOS
GUROVA NM	DAVTOK61TCA
GUSMAN TY	GRIGAF68PCC
GUYAT GL	GRILW 66RSC
HALL CC	GRIGAF68PCC
HAMOUX JP	GRODMK33COO
HAMPRECHT G	GRODMK35MOT
	CYBUA 67MMC
	CYBUA 67MMO
	GROSA 65SOA
	GRUNE 66POI
	GUPTAD67TCB
	GUPTAD67TCS
	SHESAP65ROV
	AKSEYV64TAO
	ABAEGN64THM
	GUYAGL66SPF
	HALLCC67CTP
	HAMOJP66CPA
	HAMPG 62SSO
	HAMPG 64CSA

HAMPSON NH	HAMPG 64SAB
HAPP PJ	HAMPNH65EEA
HARA H	HAPPPJ64SCP
	HARAH 57MOC
	HARAH 58CRR
	HARAH 59CRM
	HARAH 59CRR
	HARAH 59RRO
	HARAH 60TCO
HARANO Y	HARAY 63DRR
HARDING CI	GALESF67SDR
HARDISON LC	ADAMFH66MMA
HARLOW EV	HARLEV56COS
HARMELIN	HARM 66DTM
HARTER MD	HART 67FOC
HARTMAN AB	ACKECD67MAM
HARTMAN JS	HARTJS67EOI
HARTNER AJ	ADLHOJ66FCC
	ADLHOJ67PBE
HASSID NJ	MAXTEB31COO
HAUEL AP	HAUEAP65OMG
HAUFFE K	HAUFK 65REH
HAY JG	HAY JG20CCA
HAYDES FG	HAYNFG67NSA
HECHENBLEIKNER I	HECHI 26CAS
	HECHI 27CCA
	KRUME 41VCM
HECKER A	HEDLAB67FAT
HEDLEY AB	HEIDM 67TCO
HEIDE M	HEIMAA32POS
HEIMROD AA	HEINIB RSD
HEIN IB	DARBK 66CFG
HEINRICH DO	HEING 65SDR
HEINRICH G	NEUMB 37SAC
HEINTKE G	HEMMCE52AAP
HEMMIGER CE	BAYEJ 35COE
HENECKY K	CULLCF66TKO
HENSON RM	LOWRGC58CSI
HEPPENSTALL	HERBG 66EHS
HERBSLED G	HERMCV37HEA
HERMANN CV	RADEJ 67ARG
HILL K	HIMSFR49OOS
HIMSWORTH FR	OSAMG 39TMD
HIRAI T	OSAMG 43MOS
[illegible] V	HLAVV 67MOC
	MAREM 68MOC
HIRAK TP	BROOEW66PMA
HOBBS PV	SCOTWD67FSW
HOEHMANN H	HOEHH 67IOT
HOFMAN H	HOFMH 64SPF
HOHMANN H	HOHMH 67LMD
	HOHMH 67RSD
HOLMES HN	HOLMHN29PSG
	HOLMHN30VCA
HOLMES WC	HOLMWC65CRB
HOLZMANN H	HOLZH 65RON
HOMME AC	HOMMAC61SAO
HORAK J	HORAJ 67HAM

HORN EJM	KONDP 68HMT
HORNYAK L	MAMUP 67HAM
HORSLEY GF	DYSODD67ROP
	SZOLP 55OOS
HORVATH T	HORSGF46AC
HOUGEN OA	HORSGF47AOC
HOUSEMAN & THOMPSON LTD.	HORVT 65RSD
HUCKAUF H	HOUGOA43SCA
HUEGLI G	HOUS 67FGC
HURT DM	HOHMH 67LMD
	HUEGG 67PCG
HUTCHINGS J	HURTDM40CCS
HUTTER JC	HURTDM43POR
IGNACZAK W	HUTCJ 66ISC
IGREJA V	HUTTJC65PAA
IL'CHENKO NI	BLASH 66ASO
ILLARINOV VV	IGREV 67ACS
ILLARIONOV VV	ILCHNI67TIO
INAASA N	ILLAVV55PCO
INGENUIN HECHENBLEIKER	GERBEV63SFC
INOUE H	YAMAH 67CR
INSTYTUT CHEMII OGOLNEJ	INGE 25CCA
	OKI Y 66TAC
IOFFE II	INST 66SEO
	INST 67BCU
ION Z	EZHKZI64ASA
IRVIN HB	GRIGAF68PCC
ISENBERG HO	SUVOAS64LAF
ISHII T	IRVIHB51DOF
	ISENHO26CAS
ISHIZAWA M	ISHIT 65KOT
ITKINA DY	ISHIT 66ACO
IVANOV AA	KUBOH 59TRO
IVANOV D	ITKIDY52KOA
IVANOVA RS	BOREGK67TKO
	IVAND 64SAH
	IVANRS62POV
	MUKHIP63EOW
	MUKHIP65POV
JACKSON PJ	JACKPJ59VTC
JACKSON R	DYSODD67ROP
JACOB A	JACOA 66RSD
JAEGER AO	JAEGA022COO
	JAEGA023COO
	JAEGA027SA
	JAEGA028CA
	JAEGA028CAF
	JAEGA030COO
JAFFE J	JAFFJ 610C
JAFFE S	JAFFS 66PON
JANICEK W	JANIW 67MFR
JARA V	JIRUP 60IOA
	JIRUP 61EAM
	KLIMR 64SRS
JASPER HP	JASPHP65MAS
JAVORSKY J	JAVOJ 66FBP
JAVUREK V	BAUMM 66RER
JEFFCOT RC	JEFFRC33AFC

JELINER JF	JELIJF65RPM
JENKINSON JR	JENKJR63SOR
JENKS LE	JENKLE35VCS
JENSEN GA	ADAMD 66ISR
JEPHSON AC	JEPHAC66ZRC
JERZY K	SWINA 66VCU
JIRU P	JIRUP 57SSO
	JIRUP 59DEC
	JIRUP 60IOA
	JIRUP 61EAM
	JIRUP 63EOT
	JIRUP 63VPC
JIRU Z	JIRUP 59DEC
JOERGER K	HAMPG 64CSA
	HAMPG 64SAB
JOHNSON MF	JOHNMF65PSA
	JOHNMF65PSG
JOHNSTONE HF	BAROT 52RKI
	GERHER55POO
JONAKIN J	PLUMAL68RSD
JONES CR	CANJLN66TPN
JONES JB	JONEJB66UAC
JONGE J	BLICT 61OSD
JOSEPH H	JOSEH 35C
JOVANOVIC ZD	KARADB65EMS
JUDA W	JUDAW 67CHF
	JUDAW 67EOL
JUENTGEN H	JUENH CEA
	JUENH 66DSS
	KRUEM 67AEM
	KRUEM 67SDR
JUENTGER H	JUENH 65CEA
KACHKINA ZU	ZLATSG66PCC
KADLEC B	KADLB 66OOS
	SIMEA 66COT
	VOSOJ 65SSD
KADLEC J	JELIJF65RPM
KAGAWA S	SEIYT 66DSC
KALDIS E	SCHWGM63EMC
	SCHWGM64EMC
KALUSHIN AE	KALUAE65ARS
KALUZA F	KALUF 65CRC
KALYZINA VS	APAKIA65IQC
KAMALOV KM	NABIMN67CFF
KAMIMURA Y	KAMIY 67DCP
KANA B	KLIMR 64SRS
KANEKO Y	KANEY 65MOS
KANTA M	KUEZW 62CCS
	KUEZW 66OOS
KANISEPOL'SKII IS	NURMSM66RAA
KAPUSTINSKII AF	KAPUAF36CEU
KARASEV AG	NIKON 66MTA
KARAULIC DB	KARADB65EMS
KARAVAEV NM	KURGVM65TLC
	KURGVM66CPM
KARMANDAR'YAN MO	KARMMO34TIO
KAROLEWICZ S	JANIW 67MFR
KARTSYNEL MB	KARTMB66MDO

KASAOKA S	KASAS 66EFC
	KASAS 66EFO
	KASAS 67OCF
KASATKINA LA	DZISAP61TEO
	KASALA64IEF
KASHTANOV LI	KASHLI35IOT
	KASHLI35TKO
	KASHLI36FOI
	KASHLI36TEO
	KASHLI38ASB
	KASHLI38OOS
	KASHLI54MOI
	RUIZVP36TEO
	VASISS36TKO
KASTORSKAYA TL	VASISS36TKO
KATAOKA K	KUBOT 54CAO
KATELL S	BIEND 65EOP
	KATES 66RSD
KATO A	KATOA 62TCO
KAUTSKY O	KAUTO 66RCE
KAVNATSKAYA BS	SMYSNI67CCT
KAWAGUCHI T	KAWAT 54TPP
	KAWAT 55OOS
KAWAKAMI T	TORIT 46CRN
KAWAZOE K	MAEDS 51HTI
KAZAKOV EI	KAZAEI64SCI
KAZANSKII VB	EZHKZI64ASA
KAZAVCHINSKII YZ	KAZAYZ66UTS
KAZIZ C	KAZIC 67FBO
KEILHOLTZ	BENNRL63TRC
KEITH CD	KEITCD65ACF
KELAHAN RC	JEPHAC66ZRC
KENAH PM	KEITCD65ACF
KERNERMAN VS	KERNVS63CFB
	KERNVS66OOS
KESTERNICH W	KESTW 65SCT
KETTNER H	KETTH 65TRO
KHARKATS YI	LEVIVG66TIO
KHARMANDAR'YAN OM	KHAROM34TIO
KHERODINASHVILI ZS	TAVALF67EHT
KHITUM	GERNDV35TEO
KHITUN AM	ADADIE30CAF
KHOKHLOV SF	KHOKSF65MTS
KING RP	KINGRP65COT
KINUGASA J	ABE K 60DOM
KIPPER HB	KIPPHB24ACR
KIPPER HB.	KIPPHB19ACR
KIRCHEVA N	MONEG 63PFG
KIRICHENKO NE	POZIME64POS
KIRILLOV IP	KIRRIP34TOO
	POSTVF34TOO
KIRKPATRICK WJ	FRAZJH40ANM
KITTRELL JR	KITTJR67RRM
	MEZAR 66SPE
	MEZAR 67TIO
KIYOURA R	KIYOR 40ACO
	KIYOR 66POS
	KIYOR 66ROS

KLAUSS J	LAMMC 66RNO
	LAMMC 66SAC
	KLEEW 51PAO
KLEESE W	JAFFS 66PON
KLEIN FS	BETTJ 60ASD
KLIMECEK R	BFTTJ 65MCS
	FRANM 64PSD
	KLIMR 64SRS
	KLIMR 65DFG
	BLUMH 66DOP
KLOTZSCHE H	BERAY 57TUO
KLUMPAR I	KLYAGL62TPO
KLYANINA GL	APAKIA65IQC
KLYUKINA EP	KNUDCW66EGC
KNUDSON CW	KOBONI57UOD
KOBOZEN NI	KOBONI55CAE
KOBOZEV NI	KOBONI60MOC
	PARYT 67EAO
	SHEKVI52COO
	DZISAP61TEO
KOCHURIKHIN VE	KOEGH 65ROU
KOEGLER H	TAKEJ 54AFT
KOGA H	SHOKIN41CFT
KOGAN AA	WEYCS 65AOP
KOLAKOWSKA H	WEYCS 66IOS
	KOLOLA3300S
KOLODKINA LA	KOLOLA3400S
	KONDP 68HMT
KONDELIK P	MAMUP 67HAM
	KONIO 52DOA
KONISHI O	TAVALF67EHT
KOPALEISHVILI VP	KOPIR 68WSB
KOPITA R	ADAMD 66ISR
KOPPE RK	KORMNA66PIP
KORMSHCHIKOVA NA	RZAEPB60KOT
KORNEICHUK	KORNGP56IOC
KORNEICHUK GP	ROITVA58EOT
	ROITVA60TKO
	ROITVA62IKP
	STADVP64KOS
	STADVP64MOT
	KORNG 30TOO
KORNFELD G	PIERRR66PIC
KOSSLER DJ	IVAND 64SAH
KOSTADINOV N	KOTENZ57COO
KOTELKOV NZ	KOTENZ57COS
	KOTENZ66UOC
	BOGOML46IAH
KOVAL'SKII AA	KOWAE 65IUF
KOWALSKA E	KOWAE 65IUF
KOWALSKI W	KOZAZ 66EON
KOZAK Z	KOZHNV66PAX
KOZHEVNIKOVA NV	KRALH 65DNM
KRAL H	KRAMSJ66EOT
KRAMER SJ	BRODKI63PAG
KRASIL'NIKOVA NP	KRASJH55EFW
KRASUK JH	KRASJH65EFS
	KRAUA 55TIC
KRAUSE A	

KRAUSE FE
KRAUSE HH
KRAWIEC Z
KREJAR F
KREUZ RJ
KREVELEN DW
KRISHNAMURTHY VA
KRISHNAN SR
KRIVOSHLYKOV NF
KRIZ M
KRUEL M

KRUMMENACHER F
KRUSTEV I
KRYLOVA AV
KRYLOVA IV
KUBEC J
KUBINSKI I
KUBO T

KUBOTA H

KUCHAR PJ
KUCZYNSKI W

KUDASHEV VI
KUEFFER A
KUESTERS W
KUEZYNSKI W

KUHLMANN

KULAK S
KULPINA KI
KUNIN TI

KUNZER W
KUO CW
KUO ST
KURATA N

KRAUA 62CAM
KRAUA 62RTT
KRAUA 63CDA
KRAUA 64TDO
KRAUA 67HAL
KRAUA 67ROO
COUGDR65TRO
KRAUHH68SOR
JANIW 67MFR
KREJE 65AER
JASPHP65MAS
MARSP 540CO
MITRP 65CGS
KRISSR66RSD
PLATMS38CFO
KRIZM 65SOR
KRUEM 67AEM
KRUEM 67SDR
KRUME 41VCM
ELEND 66ASD
EZHKZI64ASA
SHEKVI52COO
KUBEJ 67ECD
WEYCS 65DOT
KUBOT 54CAO
KUBOT 57EOX
KUBOH 590CF
KUBOH 59TRO
KUBOH 60DDF
KUBOH 610PC
ADAMFH66MMA
KUCZW 59ATI
KUCZW 61CCF
KUCZW 63CFS
KAZAYZ66UTS
KUEFA 62SSW
KUESW 65TOF
KUEZW 62CCS
KUEZW 66OOS
KUHL 36OOS
KUHL 38ST
KUHL 63SD
TOMAZ 66ROP
CHUFGI34EOA
EPIFVS66FWV
KIRRIP34TOO
KUNITI46OOS
KUNITI63AOT
POSTVF34100
POSTVF36CPO
SOLOBI64EOC
SOLOBI64TIO
SCHWR 29TEO
KUO CW67TME
CHANMC59KSO
HARAH 59CRM
HARAH 59CRR
HARAH 59RRO

KURGANOV VM . . . . . HARAH 60TCO
KURGVM65TLC
KURGVM66CPM
KURIN NP KURINP40TCP
KURINP56ACO
KURINP56CFO
KURPJUN C . . . . . KURPC 64ROP
KUZ'MINYKH IN KUZMIN36TOT
KUZMIN61OOS
KUZMIN64POS
KUZIVA65DCF
KUZIN VA GANZSN65DUF
KUZNETSOV IE GANZSN65SDR
GANZSN66PNE
KUZNIE66PIG
KUZNETSOV VS KUZNVS64OOT
LABUTIN GV LABUGV59AFC
LACHMANN A . . . . . BRINE 43OOS
LADNER WR LADNWR63FRT
LAINE R . . . . . PAPED 66CS
LAKHMOSTOV VS . . . . . ERMAA 68AMO
LAMBERT B . . . . . LAMBB 25CFO
ROBSS 25SA
LAMBERT B AND NATIONAL PROCESSES,LTD. . . . . LAMBB 27CFO
LAMM C . . . . . LAMMC 66RNO
LAMMC 66SAC
LANDAU MA LANDMA66TCA
LANGBEIN D . . . . . LANGD 64OOA
LANGER HG GOHLRS66MSM
LASIEWICZ K . . . . . SWINA 66VCU
LASTOCHKIN YV DOBKEI66TPO
LASTYV66OOS
MIKHK 67PSA
LAVORSKII KP LAVOKP64KOS
LAWLER WC . . . . . LAWLWC USD
LAZ'YAN YI ZHORYM67KRS
LE BRAS A . . . . . LE BA 67AUW
LEBEDEV VP KOBONI57UOD
STREZV64CCA
STREZV67NMD
LEE FA . . . . . LEE FA66THF
LEE GK . . . . . LEE GK67EFC
LEE KY . . . . . LEE KY63COA
LEE KY63OAB
LEE VJ . . . . . LEE VJ64TCT
LEITH W . . . . . LEITW 67POA
LEKANDER KE LEKAKE66BMS
LEOPARD JG LEOPJG65RIF
LEPAGE M . . . . . DUCHJ 61TEC
LESOKHIN IG LASTYV66OOS
VINNLI67ASD
LEVI GR LEVIGR27DAO
LEVICH VG LEVIVG66TIO
LEVINA SA LEVISA65VMC
LEVY A KRAUHH68SOR
LEVYA 63SCA
LEVYA 67ISO
LEWIS JR K . . . . . LEWIK 49HRF

LEWIS WE	CORRTE67WDC
LEWIS WK	LEWIWK25IOR
	LEWIWK26NOT
LEYKO J	WEYCS 55TRO
LEZHNEVA KA	LEZHKA61AOO
LIBERZON LM	AMELAG66OOR
	BESKVS64DOT
	LIBELM64AOO
LIENARD G	COEKR 63CUI
LINDSAY AW	FLIND 51COO
LINNETT JW	REUBBG60ANM
LIPKINA SG	FEDONP65EOT
LISLE ES	LISLES65DOS
LITTLEJOHN RF	CORBPF52ROS
LIU SL	LIU SL67NSO
LODGE-COTTRELL LTD	LODG 66EME
LOEBL E	LOEBE 61SAC
LOFBLAD B	EDSTJO67SDC
LOKTEVA NK	ROGISZ67DCM
LORENZ F	GOLFF 62GCM
	WOLFF 62GCM
LOSTER R	SANDO 63SCI
LOWRISON GC	LOWRGC58CSI
LUDWIG JH	LUDWJH67COS
LUDWIG S	LUDWS 68APV
LUK'YANOV AB	KASHLI54MOI
LUK'YANOV PM	LUKYPM33COO
LUPADER K	LUPAK 66PEV
LUQUET F	BRUSH 66DOA
	BRUSH 66VCI
	LUQUF 67TAO
LUSS D	LUSSD 67OAC
	LUSSD 68SOB
LYUBARSKII AG	EZHKZI64ASA
MACAK J	MACAJ 67AFD
MACKLEY J	MACKJ 65IFB
MAEDA S	MAEDS 51HTI
MAESSEN JGH	MARSP 64TMO
	MARSP 68TMA
MAGYAR M	MAGYM 64KFR
MAHANT SD	MAHASD32TOO
MAHAT BK	MAHABK64OAS
MAISIN JE	MAISJE27FOS
MAKISHIMA S	MAKIS 57TMO
MAL'TSEV AN	PARYT 67EAO
MALACHOWSKI J	MALAJ 67POI
MALAKHOV AI	SALTVP65C
MALAKOV NF	SHOKIN41CFT
MALAN GH	MALAJ 35SGC
MALAN J	MALAJ 35SGC
MALASHEVICH LN	LEVISA65VMC
MALECHA J	MACAJ 67AFD
MALIN KM	ITKIDY52KOA
MALINA IK	MALIIK66DOC
MALKIMAN VI	MALKVI64OSA
	RITTLG63EUR
MALLETTE FS	MALLFS PCA
MALLISON WC	MALLWC67FBD

MALTBY R	MALTR 63ROS
MAMULA P	HORAJ 67HAM
	MAMUP 67HAM
MANAKIN BA	DAVTOK61ETR
	DAVTOK61TMO
MANDELIK BG	MANDBG66COS
MANDERSLOOT WGB	PRETST67PAP
MANDZHGALADZE SN	TAVALF67ESA
MANNING FS	CANJLN66TPN
MANNING WR	BAROT 52RKI
MANTEUFEL R	MANTR 67SAC
MARCULETIU VT	ALBEFM64ROV
MAREK M	HLAVV 67MOC
	MAREM 68MOC
MARGULIS LY	EZHKZI64ASA
	REBIPA64IMS
MARKANI HP	MELLRA66GAA
MARKAROVA EI	VISHIV63TDO
MARKAROVA LS	SHVAGL63CMF
MARKHEVKA VI	BASOVA66IER
MARKOVA EI	BURYNI63CFT
MARS P	MARSP 540CO
	MARSP 64TMO
	MARSP 68TMA
MARSANS JM	MARSJM67GMO
MARTIN TC	MARTTC66CSP
MARTINUZZI EA	MARTEA46COI
MASAMUNE S	MASAS 66PFC
	MESAS 66POF
MASLENNIKOVA VN	AMELAG67PGM
MASTIKHIN VM	BOREGK66COV
MATASOV VL	MATAVL67PSA
MATSUMOTO T	ABE K 60CRR
	ABE K 60DOM
MATTHEWS F	PETEA 630OS
MATTY RE	ROGECE66RMB
MAURETTE E	COURP 65IES
MAUSS F	MAUSF 67SCH
MAXIM MS	MAXIMS33COO
MAXTED EB	MAXTEB28IOA
	MAXTEB31COO
MAYER RP	STOWRA66ESP
MAZANEK K	MAZAK 66SCI
MCILKINNEY AE	MCILAE66IFB
MCKEE DW	NIEDLW67NMA
MCKELVEY KN	CORRTE67WDC
MEAUX EP	MEAUEP67PSW
MEGVINOV AA	CHERMA65TIT
	RUMAES66POA
MEISIEL H	HAMPG 62SSO
MEISSER HP	MEISHP60GTO
MELENT'EV PN	KAZAEI64SCI
MELIK-AKHNAZAROV T	BASOVA66IER
MELLROY RA	MELLRA66GAA
MENZEL D	RIEKL 64AEA
MERMERSKI S	MERMS 66BTA
MERRIAM HF	MERRHF27TOG
MERRYMAN EL	LEVYA 63SCA

	LEVYA 67ISO
MERTENS F	MERTE 47FHC
MESHCHERYAKOV VD	KERNVS63CFB
METALLGESELLSCHAFT	META 37VCF
	META 52POS
	META 62ASD
	META 64CTC
	META 64IPR
	META 64MOS
	META 64SAS
	META 64STF
	META 65TBC
	META 66HAC
	META 66POS
	METT 62MBC
	METT 65PSA
	METT 65STO
	METT 66CVG
	METT 66MPF
	METT 66SAS
	METTAL65PSA
METZNER AB	TINKJD64EFI
MEYERS BL	CONNJF67RSP
MEZAKI R	KITTJR67RRM
	MEZAR 66SPF
	MEZAR 67TIO
MICHALEK J	KADLB 66DOS
	MICHJ 67KOS
	SIMFA 66COT
	VOSOJ 65SSD
	VOSOJ 66DRG
	VOSOJ 66DRW
MICHALIK J	KALUF 65CRC
MICHALKO E	MICHE 62CMM
	MICHE 66OGC
	MICHE 67MRL
MICIC J	MICIJ 66CR
MIKHAILOV K	MIKHK 67PSA
MIKHALEV MF	MUKHIP59NCA
	RUMAES66POA
MIKULSKY P	KLIMR 64SRS
MISAKA Y	MISAY 67ASO
MISYUK EG	DAVTOK61FTP
	DAVTOK61TMO
MITCHELL ER	LEE GK67EFC
MITIN EV	NEIPKV64POT
MITRA P	MITRP 65CGS
MITSCHKA P	SCHNP 65EOI
	SCHNP 66EID
MITSUBISHI	MITS 67POG
MIYAJIMA M	MIYAM 66APC
MOCHIDA I	MOCHI 67LFE
MOLINA J	ASENJ 67SCC
	ASENJ 67SCP
MOLINET G	PIERRJ66RPL
MOLKENTIN IR	LUKYPM33COO
MONEY G	MONEG 63PFG
MONSANTO CO.	MONS 21CS

MONTECATINI

MOORE LP
MORALES AM
MORDKOVICH BI
MORELLI F

MORIOKA S
MORITA N
MORITA Z
MORITZ J
MOSS RL

MOTZ H
MOULTON DM
MOYES AJ
MUCKHLENOV IP
MUDRAK L
MUELLER WD
MUKHACHEV VM
MUKHLENOV IP

MULASKEY BF
MULCAHY MF
MUNRO JG
MURAKAWA S
MURPHY EM
MUSSER GS
MYERS JG
NABIEV MN
NACOVSKY W
NAGAURA S
NAGY K
NAKANURA Y

MONS 65CSM
MONS 65ROS
MONT 65ASP
MONT 66CR
MOORLP67GAL
MORAAM66SCT
MORDBI67POS
CAGIS 67CPG
TARTR 66EDP
TARTR 67SSF
MORIS 65ESG
NAKAS 41COH
NAKAY 66CRC
MORIJ 66AIC
MOSSRL66SAH
MOSSRL67SSP
ABLOCM65DHR
JUDAW 67CHF
MOYEAJ65CRF
VINNLI67ASD
MUDRL 67CR
RADEJ 67ARG
MUKHVM46IFC
CHERMA65TIT
DOBKEI66TPO
ESELIM64OCI
ESELIM64UOA
FILAVU66TOT
IVANRS62POV
KERNVS66OOS
LASTYV66OOS
MUKHIP55TUO
MUKHIP57ACP
MUKHIP59NCA
MUKHIP63EOW
MUKHIP63TUO
MUKHIP64AMS
MUKHIP65OOC
MUKHIP65POV
MUKHIP65RSS
MUKHIP65TEO
MUKHIP67SWR
POZIME64POS
SHABAP63SUE
TRABDG59EOP
TRABDG59KOT
MULABF67DMS
MULCMF67KRO
HAPPPJ64SCP
NAGAS 66PIT
BIEND 58SDC
MUSSGS66PCI
BIEND 67PDR
NABIMN67CFF
NACOW 67DSD
NAGAS 66PIT
HORVT 65RSD
NAKAY 66CRC

NAKATA S	NAKAS 41COH
	NAKAS 41COS
	TITAT 40COS
	TAKEN 64ASD
NAMBA Y	KUBOH 61OPC
NAMKOONG S	NAPIDH58COO
NAPIER DH	NATI 52ST
NATIONAL SMELTING CO.LTD	KURPC 64ROP
NAUNDORF W	NECHN 35TIO
NECHAEVA N	ZALON 33OOS
	ZALON 35POT
NECHAEVA NN	KOLOLA33OOS
	KOLOLA34OOS
NEDOSTUP VI	KAZAYZ66UTS
NEIPERT KV	MORDBI67POS
	NEIPKV64POT
NEMKOVA OG	NEMKOG67AFO
NESTAAS IN	NESTIN67IWG
NEUMANN B	NEUMB 29TRM
	NEUMB 35DPO
	NEUMB 37SAC
	NEWAHE APR
NEWALL HE	NIEDLW67NMA
NIEDRACH LW	NIKON 66MTA
NIKOLAEV N	NITT 65VOA
NITTO CHEMICAL INDUSTRY CO.LTD.	NIXOWB63IAO
NIXON WB UNIVERSAL OIL PRODUCTS	VOLGBP64GSM
NORKINA LA	NOVAS 63SUP
NOVAK S	PINAVA67CPM
NOVIKOV AI	ZULFZG66SAI
NOVRUZOV AA	RODED 68LAS
NOWAK S	NURMSM66RAA
NURMATOV SM	TETEVI67CWY
NUSINOV YE	NYROJE38GR
NYROP JE	KANEY 65MOS
ODANAKA H	ODANH 65DOT
	POZIME64POS
OGARKOV SP	TORIT 46CRN
OGAWA D	OHTAN 65CFO
OHTA N	OKAD T53OTS
OKADA T	OKAMT 60VCF
OKAMOTO T	OKI Y 66TAC
OKI Y	OLECSM66PPA
OLECK SM	KASHLI38ASB
OLESHCHUK ON	SAVIEI66EOS
OLESOVA AL	IRVIHB51DOF
OLSON RW	OLSORW50COO
	ONO S 63RAS
ONO S	ADADIE36TUO
ORLOVA IM	ADADIE34IOT
ORLOVA LM	ORNEN 66EP
ORNE N	OSAMG 39TMO
OSAME G	OSAMG 43MOS
	MCILAE66IFB
OSBERG GL	OKI Y 66TAC
OSHIMA E	MUKHIP63TUO
OSIPOVA EN	OSMUVA64PAC
OSMUL'KEVICH VA	YASHEV65GWF

OTAKE T	TONES 66APO
OTHMER DF	HOMMAC61SAO
OTTO&CO.	OTTO 67RSO
OVCHINNIKOVA EA	DAVTOK61TCA
OVCHINNIKOVA EN	DAVTOK58PEI
	DAVTOK61IMO
	OVCHEN56OSD
	OVCHEN61MOO
OY O	OY O 67MSF
PADBERG G	PADBG 67SAU
PAL AK	PAL AK67VIP
PANCHENKOV GM	ZHORYM67KRS
PANDEY SR	PANDSR68DWP
PANKHURST KS	LADNWR63FRT
PAPEE D	PAPED 66CS
PARATELLA A	PARAA 64DCC
PARERA JM	PAREJM64LIH
PARLAGH G	SZEKG 66SPO
PARRAVANO G	PARRG 66SMI
PARYCZAK T	PARYT 67EAO
PARYLIS EY	APAKIA65IQC
PASEK J	MAMUP 67HAM
PASTUKHOVA MG	ITKIDY52KOA
PAUDERT R	PAUDR 65SOO
PAULING FM	PAULFM66SA
PAVLICEK M	PAVLM 60ITV
PAVLOV GS	DOROAG17CEC
PAYNE JW	PAYNJW64ROP
PECA R	PECAR 67CMR
PELZEL VE	PELZVE67CLA
PERELYGIN YP	PEREYP67UGB
PERLMUTTER DP	FAHITZ66DOA
PERRY H	PERRH 65MOR
PERTHUIS E	MAUSF 67SCH
PETER A	PETEA 63OOS
PETERS W	JUENH CEA
	JUENH 65CEA
PETERSEN FH	PETEFH62RSA
PETERSEN G	PETEG 59AFC
	PETEG 59COO
PETERSEN H	PETEH 66RSD
PETRONSKII VA	YASHEV65GWF
PETROV NM	PETRNM47SOW
	PETRNM66CFS
	PETRNM66HLT
	PETRNM67CAF
PFEIFFER F	BLUMH 66DOP
PHILLIPS AB	HEINIB RSD
PICKERING WF	PICKWF66HOR
PIERCE JA	CONNGC28CMS
PIERCE RR	PIERRR66PIC
PIERRE RJ	PIERRJ66RPL
PIGFORD RL	BARNHE66MRK
PIGUZOVA LI	SALTVP60MCC
PINAEV VA	PINAVA630CM
	PINAVA67CPM
	PINAVA67PGS
	PITENP65RSD

PINES H	ELEYDD67AIC
PIRO M	RIVOL 66CBS
PISMEN LM	PISMLM66EOC
PITELINA NP	PINAVA67CPM
	PINAVA67PGS
	PITENP65RSD
PLANTS KD	BIEND 65EOP
PLATONOV MS	PLATMS37COT
	PLATMS38CFO
PLIGUNOV VP	BOREGK33TKO
	BOREGK40MOO
	BOREGK40MOT
PLUMATE E	PLUME 54CSA
PLUMLEY AL	PLUMAL68RSD
PODGAIKO VV	GANZSN65SDR
POHL J	BAUMM 66RER
POLAK LS	POLALS65HPI
POLISYUK YN	DAVTOK61TMO
POLL A	CRAXSR52RSF
POLLEN L	ROSEEF46PPC
POLLOCK WA	POLLWA67SDF
POLOTNYUK VY	SHESAP65ROV
POLTORAK OM	POLTOM66ANA
POLYAKOV M	POLYM 34TMO
POLYAKOVA GM	BOREGK66COV
POMMRICH-HJ	RODED 68LAS
POPE CG	POPECG67FSD
POPESCU-VALEANU M	ALBEFM64ROV
POPOVICI N	POPON 67DIR
POPPEL E	DIACV 55POV
POSTNIKOV VF	KIRRIP34TOO
	POSTVF34TOO
	POSTVF36CPO
POSTNIKOVA AV	APAKIA65IQC
POTOP P	POPON 67DIR
	POTOP 66RSD
POZIN ME	POZIME64POS
PRETORIUS ST	PRETST67PAP
PRODUITS CHIMIQUES	PROD 65POA
PROTOPOPOVA EA	MUKHIP65OOC
PSHEZHETSKII	POLALS65HPI
QUECK S	KOEGH 65ROU
RAASK E	JACKPJ59VTC
RACZ G	SZEKG 66SPO
RADEMACHERS J	RADEJ 67ARG
RAKHIMBAEV SM	NURMSM66RAA
RALSTON EL	ROGECE66RMB
RAMASWAMY V	RAMAV 67CRK
	STERJF67CRK
RAMAZASHVILI DR	TAVALE67ESA
RAMM VM	AKSEYV64EPS
	AKSEYV64TAO
	RAMMVM65RAS
RAMSAY J	HOLMHN29PSG
RANDALL GA	MALLWC67FBD
RAVOIRE J	COURP 65IES
RAY WH	CHOUA 67SCP
RAYMOND LR	AMUNNR65SID

REBINDER PA	REBIPA64IMS
REES RL	REESRL RSD
REID WT	KRAUHH68SOR
REINLUFT	REINLU65SAS
	REINLU66GAC
REJLEK M	ADAMM 66BSC
RESHETNIKOV SM	RESHSM66RBC
	SOKOAM66DOC
REUBEN BG	REUBBG60ANM
REVERBERI A	FERRG 66IFI
	FERRG 67EIP
	FERRG 67EPC
REZITSKII IG	REZIIG65POM
RHODA RN	RHODRN67CDO
RICE OK	DAVIBW67TCP
RICHARDSON JT	RICHJT66AIT
RIDDLER ES	RIDDES39CCF
RIDGE D	RIDGD 49ANM
RIDLER ES	RIDLES29RPC
	RIDLES29RPO
RIEKERT L	RIEKL 64AEA
RIENAECKER G	RIENG 59TMC
	RIENG 64CC
	RIENG 64SAC
RIES ED	LEWIWK25IOR
	LEWIWK26NOT
RIGHTMIRE RA	RIGHRA67EPO
RINCKHOFF JB	RINCJB67CCW
	RINCJB67MAI
	RINCJB67SAM
RITTER LG	BOREGK47STP
	BOREGK49THU
	RITTLG63EUR
	RITTLG630DF
RIVOLA L	RIVOL 66CBS
ROBERTS GW	HARTJS67EOI
	KNUDCW66EGC
	ROBEGW65EFF
	ROBEGW65EFP
ROBERTSON TJ	ADAMD 66ISR
ROBINSON PL	BELLTN55TKO
ROBSON S	ROBSS 25SA
	ROBSS 28COO
RODEWALD D	RODED 68LAS
ROEDER U	GRUNE 66POI
ROEGENER H	ROEGH 64MDP
ROGERS CE	ROGECE66RMB
ROGINSKII SZ	ROGISZ66SOC
	ROGISZ67DCM
ROITER VA	!LCHNI67TIO
	KORNGP56IOC
	ROITVA58EOT
	ROITVA58TRO
	ROITVA60TKO
	ROITVA60TMO
	ROITVA62IKP
	ROITVA65SOC
	RZAEPB60KOT

ROLL L	STADVP64KOS
ROSCHIN SE	ROLLL 67RDF
ROSENBLATT EF	ROSCSF66FLP
ROSENKNOP ZP	ROSEEF46PPC
ROSENTHAL AL	VASINA60SRS
ROSOCHOWICZ J	LAVOKP64KOS
ROSSLER	KUCZW 59ATI
	ROSS 67MOA
ROTGER H	ROSS 67TSO
ROUSAR I	ROTGH 26GOV
ROUSSEAU WC	GLASV 66COT
ROZDOV AB	MALLWC67FBD
ROZENKNOP ZP	AMELAG66OOR
ROZOVSKII AY	AEANPA38THE
RUDENOK MI	ROZOAY64AOT
	MUKHIP65RSS
RUDYUK NT	MUKHIP67SWR
RUEB F	KURINP56ACO
RUGH AL	REUBF 67PIN
RUHR-CHEMIE A.G.	RUGHAL65POS
RUISAKOV MV	RUHR 62CRO
RUIZ VP	LUKYPM33COO
RUIZHOV VP	KASHLI36TEO
	KASHLI35IOT
RUIZOV VP	KASHLI35TKO
RUMYANTSEVA ES	KASHLI36FOI
	RUIZVP36TEO
	LASTYV66OOS
	MUKHIP55TUO
	RUMAES65POA
	TRABDG59EOP
	TRABDG59KOT
RUSSELL HG	ERICH 67TSC
RUSTAMOV MI	ALIEVS64CCP
RUZICKA B	BAUMM 66RER
RYABCHENKOV AI	ADADIE34IOT
	ADADIE34UWF
RYLUND LB	RYLULB60CC
	RYLULB60ODA
RYZHOV VP	KASHLI38OOS
RZAEV PB	KORNGP56IOC
	ROITVA58EOT
	RZAEPB60KOT
RZYSZEC J	TOMAZ 66ROP
S.A.E.S. GETTERS S.D.A.	SAES 66PMR
S.O.G.R.E.A.H.	SOGR 66GPP
SADA E	SADAE 67EOC
SADOVSKII AS	FILIGG66POS
	SADOAS65COH
SAFIN RS	NIKON 66MTA
SAKAI J	TORIT 46CRN
SAKAI W	SEIYT 61TCO
SAKATA Y	KASAS 66EFC
	KASAS 66EFO
	KASAS 67OCE
SAKODYNSKII KI	FILIGG66POS
SALSAS-SERRA F	SALSF 52TCO
SALTANOVA VP	KUZMIN61OOS

SAMOIL I	SALTVP60MCC
SANDALINAS O	SALTVP63VCO
SANDERS JV	SALTVP65C
SANDRAK VR	SAMOI 68DCT
SANS J	SANDO 63SCI
SANTOS AM	SANDJV64RBR
SARKITS VB	MORDBI67POS
SAROCH V	SANSJ 36DSC
SATAVA V	YANEJF65PAS
SATSUK AF	MUKHIP57ACP
SATTERFIELD CN	MUKHIP63TUO
SAVELSBERG W	KUBEJ 67ECD
SAVINKOVA EI	SAROV 66SRF
SAWAPA Y	SATAV 59TSO
SCHCHUKIN ED	EREMVY38IOC
SCHEIDEL C	SATSAF40EOR
SCHEVE E	HARTJS67EOI
SCHEVE J	KNUDCW66EGC
SCHLESINGER CB	ROBEGW65EFF
SCHMAHL NG	ROBEGW65EFP
SCHNEIDER P	SAVEW 52TLO
SCHOBER R	SAVIEI66EOS
SCHOENHERR S	MORIS 65ESG
SCHORA FC	SCHCED65SPP
SCHRADER R	SCHEC 64RIW
SCHREIBER F	RIENG 64SAC
SCHREINER WC	SCHEJ 64EAO
SCHULER RW	DYSODD67ROP
SCHUMANN	SCHMNG64HGC
SCHUMANN H	SCHNP 65EOI
SCHWAB GM	SCHNP 66EID
SCHWALB H	SCHOR 67ACE
SCHWARZ R	SCHRR 64EOI
SCHWARZ-BERGKAMPH	MEISHP60GTO
SCHWARZENBEK EF	SCHRR 64EOI
SCHWENK W	SCHRF 32TOO
SCHYTIL F	BARNHE66MRK
SCOTT WD	OLSORW50COO
SEAVER PH	LAMMC 66RNO
SEDASHEVA EG	LAMMC 66SAC
SEFCIK M	SCHWGM63EMC
SEFEROVIC B	SCHWGM64EMC
SEGAL AY	SCHWGM67IMC
SEHNOUTKA J	SCHWGM67MSC
SEIYAMA T	SCHYF 61DOT
	SCHWR 29TEO
	SCHW 52COT
	SCHWEF66ROA
	HERBG 66EHS
	SCHYF 61DOT
	SCOTWD67FSW
	MALLWC67FBD
	ADADIE37CVC
	BAUMM 66RER
	SEFEB 67SAP
	SEGAAY60CWG
	DERKJ 64MUT
	SEIYT 61TCO

SELDEN CO.	SEIYT 66DSC
SELIG HJ	SELD 27CPO
SELIGA M	SELIHJ67PSF
SEMENENKO EI	SELIM 67RC
SEMENOVA GI	ROGIS?67DCM
SEMKINA NV	KURINP40TCP
SENSENBAUGH JD	ZLATSG66PCC
SERCOMBE FJ	LISLES65DOS
SEREBRENNIKOVA MT	BONDGC65SPM
SHABEL'NIKOV AP	BOREGK47STP
SHAKHNAZAROV AK	SHABAP63SUE
SHAKHUNOVA LP	SHAKAK66TPA
SHAPIRO LI	BRODKI63PAG
SHASHKINA MF	SHAPLI59FSA
SHATALIN NI	BRODKI63PAG
SHAW JT	SHATNI66EOK
SHCHEDRIN AI	SHAWJT66DOS
SHCHUKIN ED	TSYGSA67RFT
SHEKHOBALOVA VI	REBIPA64IMS
	KOBONI57UOD
	SHEKVI52COD
SHELL INTERNATIONAL	SHEL 62RAR
	SHEL 65ROS
	SHEL 66ROS
	SHEL 67RAR
	SHELL 63RSD
	SHELL 65RAS
SHERMAN YG	SHESAP65ROV
SHERWOOD TK	SHERTK65DPI
SHESTKOV AP	SHESAP65ROV
SHESTOPALOVA AA	TSYGSA67RFT
SHEVCHENKO BS	TOVMIK66SCI
SHEVENKO DM	SHEVDM64SAP
SHIGIN AI	BOGDGA58TMD
SHIMODAIRA S	SUGAH 65ESD
SHINDEROVA	LIBELM64AOO
SHINDO M	KUBOH 59OCF
	KUBOH 59TRO
	KUBOH 610PC
SHINDO N	KUBOH 60DOF
SHIOBARA K	MORIS 65ESG
SHIRYAEVA AV	ADADIE36ECD
SHKLYAR BV	SMYSNI67CCT
SHLYGIN AI	KLYAGL62TPO
	SHLYAI56MOE
SHOKIN IN	SHOKIN41CFT
SHRAIBMAN SS	SHRASS36NCP
SHULMAN HL	COLER 60ASD
SHUSTOV VI	KASALA64IEF
SHUTKIN GA	KHOKSF65MTS
SHUTKO FW	PLUMAL68RSD
SHVARTS GL	SHVAGL63CMF
SIDORKINA YS	SIDOYS67CBC
SIEDLEWSKI J	SIEDJ 64MCO
	SIEDJ 64RSG
	SIEDJ 65DNA
	SIEDJ 65MCO
	SIEDJ 66MCO

SIEGAL L4	STEGJF55V00
SIEMENS-SCHUCKERTWERKE A.G.	SIEM 65SAC
SIGOV SA	KURINP40TCP
SILICA GEL CORP	SILI 33C
SILVESTRI AJ	SILVAJ67AMO
SIMECEK A	KADLB 66OOS
	SIMFA 66COT
	VOSOJ 65SSD
SINFELT JH	SINFJH67CSM
SIROTKIN GD	SIROGD48DIS
SKORICHENKO AV	SMYSNI67CCT
SKRIVANEK J	KLIMR 65DFG
SLACZKA A	KOWAE 65IUF
SLIN'KO MG	BESKVS63DOC
	BESKVS64DOT
	BESKVS65DOC
	BOREGK52KOR
	BOREGK53COS
	BOREGK53COT
	BOREGK60OOC
	BOREGK65SAO
	FEDOAV67COT
	KERNVS66OOS
	LEZHKA61AOO
	SLINMG61TCO
	SLINMG64OSS
	ZELETI66QAO
SMELOVA VE	KALUAE65ARS
SMIDOVICH EV	SUVOAS64LAF
SMIRNOV NP	ERMAA 68AMO
SMITH CR	MOYEAJ65CRF
SMITH JM	ARGOWB53AOS
	IRVIHB51DOF
	KRASJH65EFS
	MASAS 66PFC
	MESAS 66POF
	OLSORW50COO
SMITH RI	SMITRI68APP
SMYSLOV NI	SMYSNI67CCT
SOC. GENERALE METALLURGIQUE DE HOBOKEN	SOC. 27SA
SOCIETE ANON. DES MANUFACTURE DES GLACES ET PRODUITS	SOCIET56DDO
SOCIETE DES FORGES	SOCI 65POC
SOCIETE GENERALE DE PRODUITS REFRACTORIES	SOCI 66CS
SOKOL'SKAYA AM	RESHSM66RBC
SOKOL'SKII AV	POZIME64POS
SOKOL'SKII DV	SOKOAM66DOC
	ZAKUGD66EOS
SOKOLOVA AD	MIKHK 67PSA
SOKOLOVA TI	BOREGK37TOC
	BOREGK44KOC
SOKOLSKAYA AM	SOKOAM66DOC
SOLDAN J	BALOJ 66CR
SOLINHAC J	AZOUA 64PSP
SOLINHAE J	PIERRJ66RPL
SOLOV'EV BI	KUNITI63AOT
	SOLOBI64EOC
	SOLOBI64TIO
SONNTAG A	NEUMB 35DPO

SOROKINA NM	RITTLG630DF
SOROKO VE	MUKHIP63EOW
	RUMAES66POA
SOSEKINA GV	PINAVA67PGS
SPAITE PW	LUDWJH67COS
	SPAIPW66ROA
SPENCE P	SPENP 65SDR
SPENGLER G	SPENG 65SOI
SPERANSKII BA	SPERBA60TCO
SPEVAKOVA KA	PLATMS37COT
	PLATMS38CFO
SPITSYN VI	BALAAA67AAE
	BALAAA67AEP
	SPITVI64HRC
	SPITVI66HRC
	SQUIAM67APT
SQUIRES AM	CARRS 62DOF
STABILINI MP	STADPM65DIT
STADNIK PM	STADVP64KOS
STADNIK VP	STADVP64MOT
	RIEKL 64AEA
STAIB M	STAN 64CRF
STANDARD OIL.CO.	BISKE 67RFT
STASZKO M	ADAMD 66ISR
STEADMAN JF	STEGJF55VOO
STEGER JF	STELPO52AFC
STELLING PO	STELPO53AOC
	RAMAV 67CRK
STERMOLE JF	STERJF67CRK
	STADPM65DIT
STETSOVICH KG	STETKG62OOS
	STETG 54C
STETTER G	MULCMF67KRO
STEVEN JR	JOHNMF65PSA
STEWART WE	JOHNMF65PSG
	ROTGH 26GOV
STOEWENER F	ALBEFM64ROV
STOIA M	NAPIDH58COO
STONE MH	STOPK 65EDS
STOPPERKA K	STORDH64SZO
STORMONT DH	STOWRA66ESP
STOWE RA	STREZV64CCA
STREL'NIKOVA ZV	STREZV67NMD
	ZLATSG66PCC
STRELOV KK	BLUMH 66DOP
STRICH ER	DONOJR67SAP
STUBER PJ	ROITVA62IKP
STUKANOV NA	KORNGP56IOC
STUKANOVSKAYA NA	ROITVA58EOT
	ROITVA58TRO
	ROITVA60TKO
	STUPEV49OOS
STUPOCHENKO EV	SEIYT 61TCO
SUENAGA A	SUGAS 65RBA
SUGA S	SUGAS 65RBC
	SUGAH 65ESD
SUGAWARA H	SUGIK 66RCC
SUGIYANA K	ERMAA 68AMO
SUKHAREV GA	

SURKOV EI	AKSEYV64EPS
SURNEV LN	AKSEYV64TAO
	SURNLN64EOO
	SURNLN65CIT
	SURNLN65EGE
	SUSHAM63EMO
SUSHO AM	SUTTP 68API
SUTTON P	SUVOAS64LAF
SUVOROV AS	PECAR 67CMR
SVATON M	SWINA 66VCU
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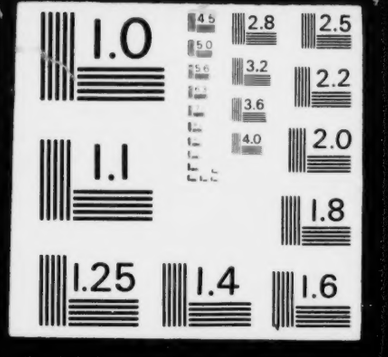

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BOREGK44KOC BORESKOV GK SOKOLOVA TI
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J.PHYS. CHEM.(U.S.S.R.) 19,92-5(1945) CA-39-3719-2

BOREGK47STP BORESKOV GK RITTER LG SEREBRENNIKOVA MT
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BOREGK49THU BORESKOV GK RITTER LG VOLKOVA EI
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ZHUR.PRIKLAD.KHIM (J.APPL.CHEM)22,250-60(1949) CA-43-8251-G

BOREGK52KOR BORESKOV GK SLIN'KO MG
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CATHJ 45ST CATHALA J
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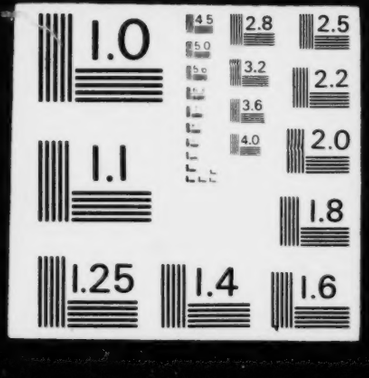

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GER. 1,176,621 (CL. C 01B) AUG 27,1964,APPL. DEC. 1,1962
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AND THE METHOD OF ACTION OF ACTIVATORS
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ZHUR.FIZ.KHIM. 35,1907-10(1961) CA-56-10968 C

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PARRG 66SMI PARRAVANO G
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ZH. FIZ. KHIM.41(8),2048-50(1967)RUSS CA-67-120434Z

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KHIM.PROM. 42(5),44-8(1966)RUSS CA-65-16553 F

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ZH. PRIKL. KHIM. 40(10),2351-3(1967)RUSS CA-68-31622 N

PINAVA67PGS PINAEV VA PITELINA NP SOSEKINA GV
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DOKL.AKAD.NAUK SSSR 67(1),151-4(1966)RUSS CA-64-15038 C

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ZH. FIZ. KHIM, 40(11),2671-87(1966)RUSS CA-66-41041 V

POLYM 34TMO POLYAKOV M
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DESIGN OF AN INSTALLATION FOR RETAINING OF SO2 CONTAINING RESIDUAL GASES IN A PLANT OF COMPLEX FERTILIZERS UNDER ECONOMICALLY ADVANTAGEOUS CONDITIONS
REV. CHIM. (BUCHAREST) 18(1),40-4(1967)(ROM) CA-66-115001F

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J.APPL.CHEM.(USSR)7,869-71(1934) CA-29-2668-8

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REV. CHIM. (BUCHAREST) 17(6),331-6(1966)(ROM.) CA-65-14896 E

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OGARKOV SP TARAT EY SOKOL'SKII AV
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NAUCHN.OSNOVY PODBORA I PROIZV. KATALIZATOROV,AKAD.NAUK SSSR SIBIRSK.OTD. 1964,21-7(RUSS) CA-63-6352 H

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REINLU65SAS REINLUFT
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GER. 1,193019 (CL. C 01B),MAY 20,1965,APPL. JUNE 20,1963
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SUBLIMATION HEATS
ZH.FIZ.KHIM. 40(10),2412-15(1966)RUSS CA-66-32279 B

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AND WASTE GASES
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REZIIG65POM REZITSKII IG
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THE SHORTENED CONTACT PROCESS
KHIM, PROM. 41(9) 681(1965)RUSS CA-64-12235 E

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GRAPHITE AND METALLIC POWDERS AND SURFACES
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OXIDATION OF SULFUR-DIOXIDE
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CA-67-(P)-60361 M

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RINCJB67SAM RINCKHOFF JB
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RITTLG63EUR RITTER LG GLEIKHENGAUZ IM MALKIMAN VI
EFFECTIVENESS OF USING A RING-SHAPED CATALYST
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